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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/609,509	06/30/2003	Goun Su Lee	30205/39440 2596		
4743	7590 06/29/2004		EXAMINER		
MARSHALI	, GERSTEIN & BORU	WALKE, AMANDA C			
6300 SEARS TOWER 233 S. WACKER DRIVE			ART UNIT	PAPER NUMBER	
CHICAGO, IL 60606			1752		

DATE MAILED: 06/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)	——————————————————————————————————————		
Office Action Summary							
		10/609,50		LEE, GEUN SU	V		
	Office Action Summary	Examiner	•	Art Unit			
		Amanda (1752	ldraaa		
Period fo	The MAILING DATE of this commun or Reply	ncation appears on the	e cover sneet with the d	orrespondence ad	aress		
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN risions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comr period for reply specified above is less than thirty (3 period for reply is specified above, the maximum st re to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no evinunication. 80) days, a reply within the stat isatutory period will apply and w y will, by statute, cause the app	ent, however, may a reply be tin utory minimum of thirty (30) day ill expire SIX (6) MONTHS from lication to become ABANDONE	nely filed s will be considered timel the mailing date of this o D (35 U.S.C. § 133).	y. ommunication.		
Status							
1)	Responsive to communication(s) file	ed on 30 June 2003.					
,	· ·	2b)⊠ This action is n	on-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-19</u> is/are pending in the at 4a) Of the above claim(s) is/at Claim(s) <u>1-10,12-17 and 19</u> is/are at Claim(s) <u>11 and 18</u> is/are rejected. Claim(s) <u>1,3 and 12</u> is/are objected Claim(s) are subject to restrict	are withdrawn from co llowed. to.					
Applicat	ion Papers						
10)	The specification is objected to by the The drawing(s) filed on is/are Applicant may not request that any objected travel from the oath or declaration is objected to	: a) ☐ accepted or b) ection to the drawing(s) b g the correction is require	oe held in abeyance. Se red if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 C			
Priority (ınder 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation	documents have been documents have been of the priority documental Bureau (PCT Rule)	en received. en received in Applicat ents have been receive le 17.2(a)).	ion No ed in this National	Stage		
2) Notice 3) Infor	te of References Cited (PTO-892) be of Draftsperson's Patent Drawing Review (Imation Disclosure Statement(s) (PTO-1449 of Proof)		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		0-152)		

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: Throughout the specification the TIMD compound is written as "tetraisoprophyl methylene diphosphonate" when it appears that the compound should actually be "tetraiso**propyl** methylene diphosphonate".

Appropriate correction is required.

Claim Objections

2. Claims 1, 3, and 12 are objected to because of the following informalities: The TIMD compound is written as "tetraisoprophyl methylene diphosphonate" when it appears that the compound should actually be "tetraiso**propyl** methylene diphosphonate". Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 11 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Dulog et al (3,882,203), Cleacak et al (4,601,969), or Graham (4,195,997).

Dulog et al disclose hydrocarbon-peroxy hydrocarbon phosphonate compounds uesful as polymerization initiators in polymerizable resin compositions, thus anticipating the instant

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claims 11 and 18 which simply require the presence of a P=O bond- containing hydrocarbon compound in a resin.

Cleacak et al disclose a high contrast UV sensitive photoresist comprising an alpha phosphoryl substituted diazo compound as a sensitizer. The compound comprises a hydrocarbon chain and a P=O bond, thus the reference anticipates the instant claims 11 and 18.

Graham disclose a photopolymerizable composition comprising a photoinitiator, and a flame retardant that comprises both a hydrocarbon chain and a P=O bond. Therefore, the teachings of the reference anticipate the instant claims 11 and 18. *Allowable Subject Matter*

5. The following is a statement of reasons for the indication of allowable subject matter: The instant claims 1-10, 12-17, and 19 are indicated as containing allowable subject matter. The prior art of record fails to teach or suggest to one of ordinary skill in the art to prepare a TIMD compound, a photoresist composition comprising the compound, or a process for preparing a photoresist pattern comprising a resist composition containing a TIMD compound.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hatekeyama et al (6,579,658), Minagawa et al (4,224,203), Alexandratos (5,442,085 and 5,256,808), Trochimcznk et al (5,712,347), Grinter et al (6,048,995), Martl et al (5,684,116), Lauke et al (4,935,332), Siddall et al (3,694,526), and Kosolapoff (2,594,455) are cited for their teachings of similar compounds and materials.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amanda C Walke whose telephone number is 571-272-1337. The examiner can normally be reached on M-R 5:30-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Amanda C Walko Examiner

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ACW June 23, 2004